IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Guy A. Rouleau et al.		
Docket No.:	GOUD:023USD2	Confirmation No.	3952
Patent No.:	7,655,460	Issued on:	February 2, 2010
Application No.:	10/664,423	Filing Date:	September 17, 2003
Group Art:	1649	Examiner:	KOLKER, Daniel E.
Title:	NUCLEIC ACIDS ENCODING SODIUM CHANNEL SCN1A ALPHA SUBUNIT PROTEINS WITH MUTATIONS ASSOCIATED WITH EPILEPSY		

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION UNDER 37 CFR § 1.323
TO CORRECT ISSUED PATENT UNDER 35 USC 255

Commissioner:

The Patentee respectfully requests the grant of this petition to correct a clerical error in the nucleotide sequence of SEQ ID NO: 1 and the parts of claims 1, 19 and 20 referring thereto, in US patent No. 7,655,460.

Nature of the error in SEQ ID NO: 1

The clerical error in SEQ ID NO: 1 in the above-noted patent corresponds to a missing thymidine (T) at position **3969**, which results in an erroneous SEQ ID NO: 1 having 837**8** residues. The correct sequence of SEQ ID NO: 1 comprises a thymidine (T) residue at position **3969** and has a length of 837**9** residues.

Correct SEQ ID NO: 1 was previously disclosed in priority application, parent application, and the instant application ***as filed***

The above-referenced patent claims priority from US provisional application No. 60/167,623 and is a divisional of US application No. 09/718,355 (now abandoned; hereinafter the '355 application). The '623 application was filed with the USPTO on November 26, 1999 and contained a description of 52 pages and Figures 1-21 disclosing a plurality of sequences. Figure 1 the '623 application disclosed the correct SEQ ID NO: 1 sequence and a copy thereof is attached as **Annex A**, with an arrow indicating the position of the thymidine (T) at position 3969.

The '355 application, claiming priority from the '623 application, was filed with the USPTO on November 24, 2000 and included an informal sequence listing comprising 72 pages. SEQ ID NO: 1 of this informal sequence listing contained the correct SEQ ID NO: 1 and a copy thereof is attached as **Annex B**, with an arrow indicating the position of the thymidine (T) at position 3969. During prosecution of the '355 application, a sequence listing in computer readable form (having 201 pages) was filed on December 12, 2001 pursuant to a Notice requesting same issued by the USPTO on June 4, 2001. The above-mentioned clerical error in SEQ ID NO: 1 arose when the new sequence listing using the PatentIn™ software was prepared. A copy of this erroneous SEQ ID NO: 1 is attached as **Annex C**, with a marking indicating the position 3969 which lacks a thymidine (T).

US application No. 10/664,423 (hereinafter the '423 application; now US patent No. 7,655,460), was filed with the USPTO on September 17, 2003, claiming priority from the '623 application and claiming divisional status from the '355 application. The '423 application was originally filed with both the correct sequence listing (having 72 pages) and the erroneous sequence listing (having 201 pages). US patent No. 7,655,460 was issued on February 2, 2010 and contained the erroneous SEQ ID NO: 1.

Thus, the correct sequence for SEQ ID NO: 1 is fully supported by the priority document, the parent application and the application resulting in the subject patent as originally filed. No new matter is added.

Corrections requested

For the Examiner's convenience, a corrected replacement sequence listing is submitted herewith in computer readable form. Except for the corrected sequence of SEQ ID NO: 1, the Patentee respectfully submits that the corrected sequence listing is identical to the sequence listing as granted in US patent No. 7,655,460. As the correction of SEQ ID NO: 1 is an insertion of a thymidine (T) at position 3969, the length of the corrected SEQ ID NO: 1 is increased by one nucleotide for a length of 8379 residues (instead on 8378 residues). Claims 1, 19 and 20 refer to specific residue positions in SEQ ID NO: 1. Thus, these claims have been amended to reflect the changes in the residue numbering resulting from the corrected SEQ ID NO: 1. Each of the requested amendments to claims 1, 19 and 20 have been specifically listed in the USPTO form PTO/SB/44 submitted herewith. For the Examiner's convenience, a copy of the claims with markings have also been submitted herewith.

In the event that there are any questions concerning this Petition, the Examiner is respectfully urged to telephone the undersigned so that correction of the above-noted patent may be expedited.

It is requested that, if this Petition is granted, the file be forwarded to the Certificate of Correction Branch for the issuance of an appropriate Certificate of Correction.

The required fee set forth in 37 C.F.R. § 1.20(a) is included. If the fee is inadvertently omitted, or should any additional fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason relating to this document, or should an overpayment be included, the Commissioner is authorized to deduct or credit said fees from or to Fulbright & Jaworski Deposit Account No. 50-1212/GOUD:023USD2.

Respectfully submitted,

Date: July 6, 2011

Charles P. Landrum
Registration No.: 46,855
Attorney for Patentee

Fulbright & Jaworski L.L.P.
98 San Jacinto Blvd., Suite 1100
Austin, Texas 78701
(512) 474-5201

Encl: - Corrected sequence listing in computer readable format
- Corrected claims with markings
- PTO/SB/44 form
- Annexes A-C

What is claimed is:

1. A purified human alpha subunit of an SCN1A sodium channel nucleic acid selected from the group consisting of:

(a) a nucleic acid comprising a sequence encoding an alpha subunit of SCN1A selected from the group consisting of:

(i) an alpha subunit of SCN1A as set forth in SEQ ID NO:3, comprising a mutation corresponding to amino acid position 188 which replaces an aspartic acid residue by a valine residue;

(ii) an alpha subunit of SCN1A as set forth in SEQ ID NO:3, comprising a mutation corresponding to amino acid position 1238 which replaces a glutamic acid residue by an aspartic acid residue;

(iii) an alpha subunit of SCN1A as set forth in SEQ ID NO:3, comprising a mutation corresponding to amino acid position 1773 which replaces a serine residue by a tyrosine residue; and

(iv) an alpha subunit of SCN1A being at least 95% identical to the SCN1A alpha subunits in (i)-(iii) and comprising one of the mutations at amino acid position 188, 1238 or 1773;

(b) an SCN1A nucleic acid fragment selected from the group consisting of:

(v) an amplified segment consisting of the nucleic acid sequence from nucleotide 739 to 867 of SEQ ID NO: 1,

(vi) an amplified segment comprising the nucleic acid sequence from nucleotide 739 to 867 of SEQ ID NO: 1 having a mutation at nucleotide 828,

(vii) an amplified segment consisting of the nucleic acid sequence from nucleotide 3971~~3970~~ to 4144~~4143~~ of SEQ ID NO: 1,

(viii) an amplified segment comprising the nucleic acid sequence from nucleotide 3971~~3970~~ to 4144~~4143~~ of SEQ ID NO: 1 having a mutation at position 3979~~3978~~,

(ix) an amplified segment consisting of the nucleic acid sequence from nucleotide 5522~~5521~~ to 5748~~5747~~ of SEQ ID NO: 1, and

(x) an amplified segment comprising the nucleic acid sequence from nucleotide 5522~~5521~~ to 5748~~5747~~ of SEQ ID NO: 1 having a mutation at position 5583~~5582~~; and

(c) a full-length complement of (a) or (b).

2. The purified nucleic acid of claim 1, wherein said alpha subunit SCN1A nucleic acid encodes:

(a) an alpha subunit of SCN1A as set forth in SEQ ID NO:3, comprising a mutation corresponding to amino acid position 188 which replaces an aspartic acid residue by a valine residue; or

(b) an alpha subunit of SCN1A at least 95% identical to the alpha subunit of SCN1A as set forth in SEQ ID NO:3 and comprising a mutation corresponding to amino acid position 188 which replaces an aspartic acid residue by a valine residue.

3. The purified nucleic acid of claim 1, wherein said SCN1A nucleic acid fragment comprises a the nucleotide sequence as set forth in SEQ ID NO:190 or the nucleotide sequence as set forth in SEQ ID NO:192.

4. The purified nucleic acid of claim 1, encoding the alpha subunit of SCN1A set forth in SEQ ID NO:3, wherein an aspartic acid residue at position 188 is replaced by a valine residue.

5. The purified nucleic acid of claim 1, encoding the alpha subunit of SCN1A set forth in SEQ ID NO:3, wherein a glutamic acid residue at position 1238 is replaced by an aspartic acid residue.

6. The purified nucleic acid of claim 1, encoding the alpha subunit of SCN1A set forth in SEQ ID NO:3, wherein a serine residue at position 1773 is replaced by a tyrosine residue.

7. A vector comprising any one of the nucleic acids of claim 1.

8. An isolated cell harboring a vector of claim 7.

9. A vector comprising any one of the nucleic acids of claim 2.

10. An isolated cell harboring the vector of claim 9.

11. A vector comprising any one of the nucleic acids of claim 3.

12. An isolated cell harboring the vector of claim 11.

13. A vector comprising the nucleic acid of claim 4.

14. An isolated cell harboring the vector of claim 13.

15. A vector comprising the nucleic acid of claim 5.

16. An isolated cell harboring the vector of claim 15.

17. A vector comprising the nucleic acid of claim 6.

18. An isolated cell harboring the vector of claim 17.

19. A purified human SCN1A nucleic acid comprising a nucleic acid sequence selected from the group consisting of:

(a) a nucleic acid sequence encoding an alpha subunit of SCN1A selected from the group consisting of:

(i) an alpha subunit of SCN1A as set forth in SEQ ID NO:3, comprising a mutation corresponding to amino acid position 188 which replaces an aspartic acid residue by a valine residue;

(ii) an alpha subunit of SCN1A as set forth in SEQ ID NO:3, comprising a mutation corresponding to amino acid position 1238 which replaces a glutamic acid residue by an aspartic acid residue;

(iii) an alpha subunit of SCN1A as set forth in SEQ ID NO:3, comprising a mutation corresponding to amino acid position 1773 which replaces a serine residue by a tyrosine residue; and

(iv) an alpha subunit of SCN1A being at least 95% identical to the SCN1A alpha subunits in (i)-(iii) and comprising one of the mutations at amino acid position 188, 1238 or 1773;

(b) an SCN1A nucleic acid fragment selected from the group consisting of:

(v) an amplified segment comprising the nucleic acid sequence from nucleotide 739 to 867 of SEQ ID NO: 1 having a mutation at position 828,

(vi) an amplified segment comprising the nucleic acid sequence from nucleotide 39713~~970~~ to 41444~~143~~ of SEQ ID NO:1 having a mutation at position 39793~~978~~,

(vii) an amplified segment comprising the nucleic acid sequence from nucleotide 55225~~521~~ to 57485~~747~~ of SEQ ID NO: 1 having a mutation at position 55835~~582~~; and

(c) a full-length complement of (a) or (b).

20. The nucleic acid of claim 19, wherein said nucleic acid sequence is selected from the group consisting of:

(viii) an amplified segment consisting of the nucleic acid sequence from nucleotide 739 to 867 of SEQ ID NO: 1 having a mutation at position 828,

(ix) an amplified segment consisting of the nucleic acid sequence from nucleotide 39713~~970~~ to 41444~~143~~ of SEQ ID NO:1 having a mutation at position 39793~~978~~;

(x) an amplified segment consisting of the nucleic acid sequence from nucleotide 55225~~521~~ to 57485~~747~~ of SEQ ID NO: 1 having a mutation at position 55835~~582~~; and

(xi) a full-length complement of (viii)-(x).

21. A vector comprising any one of the nucleic acids of claim 19.

22. An isolated cell harboring the vector of claim 21.

23. A purified human alpha subunit of an SCN1A sodium channel nucleic acid comprising a nucleic acid sequence selected from the group consisting of:

(a) a nucleic acid sequence encoding an alpha subunit of SCN1A selected from the group consisting of:

(i) an alpha subunit of SCN1A as set forth in SEQ ID NO:409, comprising a mutation corresponding to amino acid position 188 which replaces an aspartic acid residue by a valine residue;

(ii) an alpha subunit of SCN1A as set forth in SEQ ID NO:410, comprising a mutation corresponding to amino acid position 1238 which replaces a glutamic acid residue by an aspartic acid residue;

(iii) an alpha subunit of SCN1A as set forth in SEQ ID NO:411, comprising a mutation corresponding to amino acid position 1773 which replaces a serine residue by a tyrosine residue; and

(iv) an alpha subunit of SCN1A being at least 95% identical to the SCN1A alpha subunits in (ii)-(iii) and comprising one of the mutations at amino acid position 188, 1238 or 1773; and

(b) a full-length complement of a).

ANNEX A

PETITION UNDER 37 CFR § 1.323
TO CORRECT ISSUED US PATENT NO. 7,655,460

tactgcagaggtctctggtgcatgtgtgtatgtgtgcgtttgtgtgtgtttgtgtgtctgtgtgttctgccccagtgagactgcagcccttgtaaata
ctttgacacctttgcaagaaggaatctgaacaattgcaactgaaggcacattgttatcatctcgtctttgggtgatgctgttcctcactgcagatg
gataattttccttttaatcaggaatttcatatgcagaataaatggtaattaaaatgtgcaggatgacaagATGGAGCAAACAGTGC
TTGTACCACCAGGACCTGACAGCTTCAACTTCTTCACCAGAGAATCTCTTGCGGCTA
TTGAAAGACGCATTGCAGAAGAAAAGGCAAAGAATCCCAAACCAGACAAAAAAGA
TGACGACGAAAATGGCCCAAAGCCAAATAGTGACTTGGAAGCTGGAAAGAACCTTC
CATTTATTTATGGAGACATTCCTCCAGAGATGGTGTCAGAGCCCCTGGAGGACCTGG
ACCCCTACTATATCAATAAGAAAACTTTTATAGTATTGAATAAAggGAAGGCCA
TCTTCCGGTTCAGTGCCACCTCTGCCCTGTACATTTTAACTCCCTTCAATCCTCTTAG
GAAAATAGCTATTAAGATTTTGGTACATTCATTATTCAGCATGCTAATTATGTGCACT
ATTTTGACAAACTGTGTGTTTATGACAATGAGTAACCCTCCTGATTGGACAAAGAAT
GTAGAATACACCTTCACAGGAATATATACTTTTGAATCACTTATAAAAATTATTGCA
AGGGGATTCTGTTTAGAAGATTTTACTTTCCTTCGGGATCCATGGAACTGGCTCGATT
TCACTGTCATTACATTTGCGTACGTCACAGAGTTTGTGGACCTGGGCAATGTCTCGG
CATTGAGAACATTCAGAGTTCTCCGAGCATTGAAGACGATTTCAGTCATTCCAGG
CCTGAAAACCATTGTGGGAGCCCTGATCCAGTCTGTGAAGAAGCTCTCAGATGTAAT
GATCCTGACTGTGTTCTGTCTGAGCGTATTTGCTCTAATTGGGCTGCAGCTGTTCATG
GGCAACCTGAGGAATAAATGTATACAATGGCCTCCCACCAATGCTTCCTTGGAGGA
ACATAGTATAGAAAAGAATATAACTGTGAATTATAATGGTACACTTATAAATGAAA
CTGTCTTTGAGTTTGACTGGAAGTCATATATTCAAGATTCAAGATATCATTATTTCCT
GGAGGGTTTTTTAGATGCACTACTATGTGGAAATAGCTCTGATGCAGGCCAATGTCC
AGAGGGATATATGTGTGTGAAAGCTGGTAGAAATCCCAATTATGGCTACACAAGCTT
TGATACCTTCAGTTGGGCTTTTTTGTCCTTGTTTCGACTAATGACTCAGGACTTCTGG
GAAAATCTTTATCAACTGACATTACGTGCTGCTGGGAAAACGTACATGATATTTTTT
GTATTGGTCATTTTCTTGGGCTCATTCTACCTAATAAATTTGATCCTGGCTGTGGTGG
CCATGGCCTACGAGGAACAGAATCAGGCCACCTTGGAAGAAGCAGAACAGAAAGA
GGCCGAATTTCAGCAGATGATTGAACAGCTTAAAAAGCAACAGGAGGCAGCTCAGC
AGGCAGCAACGGCAACTGCCTCAGAACATTCCAGAGAGCCCAGTGCAGCAGGCAGG
CTCTCAGACAGCTCATCTGAAGCCTCTAAGTTGAGTTCCAAGAGTGCTAAGGAAAGA
AGAAATCGGAGGAAGAAAAGAAAACAGAAAGAGCAGTCTGGTGGGGAAGAGAAAG
ATGAGGATGAATTCCAAAAATCTGAATCTGAGGACAGCATCAGGAGGAAAGGTTTT
CGCTTCTCCATTGAAGGGAACCGATTGACATATGAAAAGAGGTACTCCTCCCC

FIGURE 1

ACACCAGTCTTTGTTGAGCATCCGTGGCTCCCTATTTTCACCAAGGCGAAATAGCAG
AACAAGCCTTTTCAGCTTTAGAGGGCGAGCAAAGGATGTGGGATCTGAGAACGACT
TCGCAGATGATGAGCACAGCACCTTTGAGGATAACGAGAGCCGTAGAGATTCCTTG
TTTGTGCCCCGACGACACGGAGAGAGACGCAACAGCAACCTGAGTCAGACCAGTAG
GTCATCCCGGATGCTGGCAGTGTTTCCAGCGAATGGGAAGATGCACAGCACTGTGG
ATTGCAATGGTGTGGTTTCCTTGGTTGGTGGACCTTCAGTTCCTACATCGCCTGTTGG
ACAGCTTCTGCCAGAGGTGATAATAGATAAGCCAGCTACTGATGACAATGGAACAA
CCACTGAAACTGAAATGAGAAAGAGAAGGTCAAGTTCTTTCCACGTTTCCATGGACT
TTCTAGAAGATCCTTCCCAAAGGCAACGAGCAATGAGTATAGCCAGCATTCTAACA
AATACAGTAGAAGAACTTGAAGAATCCAGGCAGAAATGCCCACCCTGTTGGTATAA
ATTTTCCAACATATTCTTAATCTGGGACTGTTCTCCATATTGGTTAAAAGTGAAACAT
GTTGTCAACCTGGTTGTGATGGACCCATTTGTTGACCTGGCCATCACCATCTGTATTG
TCTTAAATACTCTTTTCATGGCCATGGAGCACTATCCAATGACGGACCATTTCAATA
ATGTGCTTACAGTAGGAAACTTGGTTTTCACTGGGATCTTTACAGCAGAAATGTTTCT
GAAAATTATTGCCATGGATCCTTACTATTATTTCCAAGAAGGCTGGAATATCTTTGA
CGGTTTTATTGTGACGCTTAGCCTGGTAGAACTTGGACTCGCCAATGTGGAAGGATT
ATCTGTTCTCCGTTCATTTCGATTGCTGCGAGTTTTCAAGTTGGCAAAATCTTGGCCA
ACGTTAAATATGCTAATAAAGATCATCGGCAATTCCGTGGGGGCTCTGGGAAATTTA
ACCCTCGTCTTGGCCATCATCGTCTTCATTTTTGCCGTGGTCGGCATGCAGCTCTTTG
GTAAAAGCTACAAAGATTGTGTCTGCAAGATCGCCAGTGATTGTCAACTCCCACGCT
GGCACATGAATGACTTCTTCCACTCCTTCCTGATTGTGTTCCGCGTGCTGTGTGGGGA
GTGGATAGAGACCATGTGGGACTGTATGGAGGTTGCTGGTCAAGCCATGTGCCTTAC
TGTCTTCATGATGGTCATGGTGATTGGAAACCTAGTGGTCCTGAATCTCTTTCTGGCC
TTGCTTCTGAGCTCATTTAGTGCAGACAACCTTGCAGCCACTGATGATGATAATGAA
ATGAATAATCTCCAAATTGCTGTGGATAGGATGCACAAAGGAGTAGCTTATGTGAA
AAGAAAAATATATGAATTTATTCAACAGTCCTTCATTAGGAAACAAAAGATTTTAGA
TGAAATTAAACCACTTGATGATCTAAACAACAAGAAAGACAGTTGTATGTCCAATCA
TACAGCAGAAATTGGGAAAGATCTTGACTATCTTAAAGATGTAAATGGAACTACAA
GTGGTATAGGAACTGGCAGCAGTGTTGAAAAATACATTATTGATGAAAGTGATTAC
ATGTCATTCATAAACAACCCCAGTCTTACTGTGACTGTACCAATTGCTGTAGGAGAA
TCTGACTTTGAAAATTTAAACACGGAAGACTTTAGTAGTGAATCGGATCTGGAAGAA
AGCAAAGAGAAACTGAATGAAAGCAGTAGCTCATCAGAAGGTAGCACTGTGGACAT
CGGCGCACCTGTAGAAGAACAGCCCGTAGTGGAACCTGAAGAAACTCTTGAACCAG
AAGCTTGTTTCACTGAAGGCTGTGTACAAAGATTCAAGTGTTGTCAAATCAATGTGG
AAGAAGGCAGAGGAAAACAATGGTGGAACCTGAGAAGGACGTGTTTCCGAATAGTT
GAACATAACTGGTTTGAGACCTTCATTGTTTTCATGATTCTCCTTAGTAGTGGTGCTC
TGGCATTTGAAGATATATATATTGATCAGCGAAAGACGATTAAGACGATGTTGGAAT
ATGCTGACAAGGTTTTCACTTACATTTTCATTCTGGAAATGCTTCTAAAATGGGTGGC
ATATGGCTATCAAACATATTTCACCAATGCCTGGTGTTGGCTGGACTTCTTAATTGTT
GATGTTTCATTGGTCAGTTTAACAGCAAATGCCTTGGGTTACTCAGAACTTGGAGCC
ATCAAATCTCTCAGGACACTAAGAGCTCTGAGACCTCTAAGAGCCTTATCTCGATTT
GAAGGGATGAGGGTGGTTGTGAATGCCCTTTTAGGAGCAATTCCATCCATCATGAAT
GTGCTTCTGGTTTGTCTTATATTCTGGCTAATTTTCAGCATCATGGGCGTAAATTTGT

FIGURE 1 (cont'd)

TTGCTGGCAAATTCTACCACTGTATTAACACCACAACTGGTGACAGGTTTGACATCG
AAGACGTGAATAATCATACTGATTGCCTAAAACTAATAGAAAGAAATGAGACTGCT
CGATGGAAAAATGTGAAAGTAAACTTTGATAATGTAGGATTTGGGTATCTCTCTTTG
CTTCAAGTTGCCACATTCAAAGGATGGATGGATATAATGTATGCAGCAGTTGATTCC
AGAAATGTGGAACTCCAGCCTAAGTATGAAGAAAGTCTGTACATGTATCTTTACTTT
GTTATTTTCATCATCTTTGGGTCCTTCTTCACCTTGAACCTGTTTATTGGTGTCATCAT
AGATAATTTCAACCAGCAGAAAAAGAAGTTTGGAGGTCAAGACATCTTTATGACAG
AAGAACAGAAGAAATACTATAATGCAATGAAAAAATTAGGATCGAAAAAACCGCA
AAAGCCTATACCTCGACCAGGAAACAAATTTCAAGGAATGGTCTTTGACTTCGTAAC
CAGACAAGTTTTTGACATAAGCATCATGATTCTCATCTGTCTTAACATGGTCACAAT
GATGGTGGAAACAGATGACCAGAGTGAATATGTGACTACCATTTTGTCACGCATCAA
TCTGGTGTTCATTGTGCTATTTACTGGAGAGTGTGTACTGAAACTCATCTCTCTACGC
CATTATTATTTTACCATTGGATGGAATATTTTTGATTTTGTGGTTGTCATTCTCTCCAT
TGTAGGTATGTTTCTTGCCGAGCTGATAGAAAAGTATTTCGTGTCCCCTACCCTGTTC
CGAGTGATCCGTCTTGCTAGGATTGGCCGAATCCTACGTCTGATCAAAGGAGCAAAG
GGGATCCGCACGCTGCTCTTTGCTTTGATGATGTCCCTTCCTGCGTTGTTTAACATCG
GCCTCCTACTCTTCCTAGTCATGTTCATCTACGCCATCTTTGGGATGTCCAACTTTGC
CTATGTTAAGAGGGAAGTTGGGATCGATGACATGTTCAACTTTGAGACCTTTGGCAA
CAGCATGATCTGCCTATTCCAAATTACAACCTCTGCTGGCTGGGATGGATTGCTAGC
ACCCATTCTCAACAGTAAGCCACCCGACTGTGACCCTAATAAAGTTAACCCTGGAAG
CTCAGTTAAGGGAGACTGTGGGAACCCATCTGTTGGAATTTTCTTTTTTGTCAGTTAC
ATCATCATATCCTTCCTGGTTGTGGTGAACATGTACATCGCGGTCATCCTGGAGAAC
TTCAGTGTTGCTACTGAAGAAAGTGCAGAGCCTCTGAGTGAGGATGACTTT
GAGATGTTCTATGAGGTTTGGGAGAAGTTTGATCCCGATGCAACTCAGTTCATGGAA
TTTGAAAAATTATCTCAGTTTGCAGcTGCGCTTGAACCGCCTCTCAATCTGCCACAAC
CAAACAAACTCCAGCTCATTGCCATGGATTTGCCCATGGTGAGTGGTGACCGGATCC
ACTGTCTTGATATCTTATTTGCTTTTACAAAGCGGGTTCTAGGAGAGAGTGGAGAGA
TGGATGCTCTACGAATACAGATGGAAGAGCGATTCATGGCTTCCAATCCTTCCAAGG
TCTCCTATCAGCCAATCACTACTACTTTAAAACGAAAACAAGAGGAAGTATCTGCTG
TCATTATTCAGCGTGCTTACAGACGCCACCTTTTAAAGCGAACTGTAAAACAAGCTT
CCTTTACGTACAATAAAAACAAAATCAAAGGTGGGGCTAATCTTCTTATAAAAGAA
GACATGATAATTGACAGAATAAATGAAAACTCTATTACAGAAAAAACTGATCTGAC
CATGTCCACTGCAGCTTGTCCACCTTCCTATGACCGGGTGACAAAGCCAATTGTGGA
AAAACATGAGCAAGAAGGCAAAGATGAAAAAGCCAAAGGGAAATAAatgaaaataaataaa
aataattgggtgacaaattgtttacagcctgtgaaggtgatgtatttttatcaacaggactcctttaggaggtcaatgccaaactgactgtttttaca
caaatctccttaaggtcagtgcctacaataagacagtgacccccttgtcagcaaactgtgactctgtgtaaaggggagatgaccttgacaggag
gttactgttctcactaccagctgacactgctgaagataagatgcacaatggctagtcagactgtagggaccagtttcaaggggtgcaaacctgt
gattttggggttgtttaacatgaaacactttagtgtagtaattgtatccactgtttgcatttcaactgccacatttgtcacatttttatggaatctgttagt
ggattcatctttttgttaatccatgtgtttattatatgtgactatttttgtaaacgaagtttctgttgagaaataggctaaggacctctataacaggtatg
ccacctgggggtatggcaaccacatggccctcccagctacacaaagtcgtggtttgcatgagggcatgctgcacttagagatcatgcatga
gaaaaagtcacaagaaaaacaaattcttaaatttcaccatatttctgggaggggtaattgggtgataagtggaggtgctttgttgatcttgttttgc
gaaatccagcccctagaccaagtagattatttgtgggtaggccagtaaatcttagcaggtgcaaacttcattcaaatgtttggagtcataaatgtt
atgtttctttttgttgtattaaaaaaaaaacctgaatagtgaatattgcccctcaccctccaccgccagaagactgaattgaccaaaattactcttta

FIGURE 1 (cont'd)

taaatttctgctttttcctgcactttgtttagccatcttcggctctcagcaaggttgacactgtatatgttaatgaaatgctatttattatgtaaatagtca
ttttaccctgtggtgcacgtttgagcaaacaaataatgacctaagcacagtatttattgcatcaaatatgtaccacaagaaatgtagagtgcaagc
tttacacaggtaataaaatgtattctgtaccatttatagatagtttggatgctatcaatgcatgtttatattaccatgctgctgtatctggtttctctcact
gctcagaatctcatttatgagaaaccatatgtcagtggtaaagtcaaggaaattgttcaacagatctcatttatttaagtcattaagcaatagtttgc
agcactttaacagctttttggttatttttacattttaagtggataacatatggtatatagccagactgtacagacatgtttaaaaaaacacactgctta
acctattaaatatgtgtttagaattttataagcaaatataaatactgtaaaaagtcactttatttttatttttcagcattatgtacataaatatgaagagga
aattatcttcaggttgatatcacaatcacttttcttactttctgtccatagtacttttcatgaaagaaatttgctaaataagacatgaaaacaagactg
ggtagttgtagatttctgctttttaaattacatttgctaattttagattatttcacaattttaaggagcaaaataggttcacgattcatatccaaattatgc
tttgcaattggaaaagggtttaaaatttttatttatatttctggtagtacctgcactaactgaattgaaggtagtgcttatgttatttttgttctttttttctga
cttcggtttatgttttcatttctttggagtaatgctgctctagattgttctaaatagaatgtgggcttcataatttttttttccacaaaaacagagtagtca
acttatatagtcaattacatcaggacattttgtgtttcttacagaagcaaaccataggctcctcttttccttaaaactacttagataaactgtattcgtg
aactgcatgctggaaaatgctactattatgctaaataatgctaaccaacatttaaaatgtgcaaaactaataaagattacatttttttatttta

FIGURE 1 (cont'd)

ANNEX B

PETITION UNDER 37 CFR § 1.323
TO CORRECT ISSUED US PATENT NO. 7,655,460

SEQUENCE LISTING

tactgcagaggtctctggtgcatgtgtgtatgtgtgcgtttgtgtgtgtttgtgtgtctgtgtgttctgccccagtgagactgcagcccttgtaaata
ctttgacacctttgcaagaaggaatctgaacaattgcaactgaaggcacattgttatcatctcgtctttgggtgatgctgttcctcactgcagatg
gataattttccttttaatcaggaatttcatatgcagaataaatggtaattaaaatgtgcaggatgacaagATGGAGCAAACAGTGC
TTGTACCACCAGGACCTGACAGCTTCAACTTCTTCACCAGAGAATCTCTTGCGGCTA
TTGAAAGACGCATTGCAGAAGAAAAGGCAAAGAATCCCAAACCAGACAAAAAAGA
TGACGACGAAAATGGCCCAAAGCCAAATAGTGACTTGGAAGCTGGAAAGAACCTTC
CATTTATTTATGGAGACATTCCTCCAGAGATGGTGTCAGAGCCCCTGGAGGACCTGG
ACCCCTACTATATCAATAAGAAAACTTTTATAGTATTGAATAAAggGAAGGCCA
TCTTCCGGTTCAGTGCCACCTCTGCCCTGTACATTTTAACTCCCTTCAATCCTCTTAG
GAAAATAGCTATTAAGATTTTGGTACATTCATTATTCAGCATGCTAATTATGTGCACT
ATTTTGACAAACTGTGTGTTTATGACAATGAGTAACCCTCCTGATTGGACAAAGAAT
GTAGAATACACCTTCACAGGAATATATACTTTTGAATCACTTATAAAAATTATTGCA
AGGGGATTCTGTTTAGAAGATTTTACTTTCCTTCGGGATCCATGGAACTGGCTCGATT
TCACTGTCATTACATTTGCGTACGTCACAGAGTTTGTGGACCTGGGCAATGTCTCGG
CATTGAGAACATTCAGAGTTCTCCGAGCATTGAAGACGATTTCAGTCATTCCAGG
CCTGAAAACCATTGTGGGAGCCCTGATCCAGTCTGTGAAGAAGCTCTCAGATGTAAT
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ANNEX C

PETITION UNDER 37 CFR § 1.323
TO CORRECT ISSUED US PATENT NO. 7,655,460

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Rochefort, Daniel

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